## SELECTIVE SHIELD/MATERIAL FLOW MECHANISM

## ABSTRACT

10

5

15

20

An apparatus and method for plating a workpiece. apparatus comprises, generally, an anode, a cathode, and a selective anode shield/material flow assembly. In use, both the anode and the cathode are immersed in a solution, and the cathode is used to support the workpiece. electroplating process, the anode and the cathode generate an electric field emanating from the anode towards the cathode, to generate a corresponding current to deposit an electroplating material on the workpiece. The selective shield/material flow assembly is located between the anode and the cathode, and forms a multitude of adjustable These opening have sizes that are adjustable openings. during the electroplating process for selectively and controllably adjusting the amount of electric flux passing through the selective shield/material flow assembly and the distribution of the electroplating material on the workpiece. The selective shield/material flow assembly can also be used with an electroless plating system. At least one selective shield material flow mechanism is used in a selective shield material flow assembly.

25